

FIG. 1

PILLSBURY WINTHROP SHAW PITTMAN LLP Serial No.: 10/643,422 - Confirmation No. 4553 Group Art Unit: 2627 Title: SOUND RECORDING/REPRODUCING.... Attorney Name: Roger R. Wise Tel.: (213) 488-7100 Docket No.: 51270-305422 REPLACEMENT SHEET (START) S1 RECORD SOUND DATA ONTO RECORDING MEDIUM S2 RECORDING OF ALL NO MUSIC PIECES COMPLETED ? S3 YES RECORD ATTRIBUTE INFORMATION ONTO RECORDING MEDIUM CREATE RULE TABLE END FIG. 2 -100 MUSIC PIECE ml; ALBUM al MUSIC PIECE m2 MUSIC PIECE m3 MUSIC PIECE m4 ALBUM a2

ARTIST r1

ARTIST r2

ALBUM a1

MUSIC PIECE m1

MUSIC PIECE m2

MUSIC PIECE m2

MUSIC PIECE m3

MUSIC PIECE m3

MUSIC PIECE m4

MUSIC PIECE m4

MUSIC PIECE m5

MUSIC PIECE m6

GENRE j2

MUSIC PIECE m6

MUSIC PIECE m6

MUSIC PIECE m7

MUSIC PIECE m7

FIG. 3

Title: SOUND RECORDING/REPRODUCING....

Attorney Name: Roger R. Wise
Tel.: (213) 488-7100 Docket No.: 51270-305422 REPLACEMENT SHEET

_101.	MUSIC	PIECE	RULE	TABLE
-------	-------	-------	------	-------

FIG. 4A

\			
MUSIC	DSP PROGRAM	MODEL	
PIECE ID	PARAMETER	ID	
1	HALL	1	
4	CHURCH	1	
8	JAZZ	11	
1	1	ļ.	
	1	·	

\_102. ALBUM RULE TABLE

FIG. 4B

ALBUM ID	DSP PROGRAM PARAMETER	MODEL ID
2	OFF	1
5	ADVENTURE	1
9	GENERAL	1
		! ! !

103. ARTIST RULE TABLE

FIG.	4C
LIQ.	40

ARTIST	DSP PROGRAM	MODEL
ID	PARAMETER	ID
3	HALL	1
6	JAZZ	1
7	OFF	1
		1 1 1 1

-104. GENRE RULE TABLE

DSP PROGRAM	MODEL
PARAMETER	ID
GENERAL	1
HALL	1
JAZZ	1
1	<u> </u>
	PARAMETER GENERAL HALL

FIG. 4D

Tel.: (213) 488-7100 Docket No.: 51270-305422 REPLACEMENT SHEET START) S11 REPRODUCED SELECT EACH MUSIC PIECE TO BE S12 IS SELECTOR CURRENTLY NO SELECTING RECORDING/REPRODUCING APPRATUS ? S13 YES ! ACQUIRE DSP PROGRAM PARAMETER S14 SET DSP PROGRAM PARAMETER READ OUT SOUND DATA S15 S16 HAS SELECTOR SHIFTED NO TO RECORDING/REPRODUCING APPARATUS ? **S17** YES S18 ACQUIRE DSP PROGRAM PARAMETER SET DSP PROGRAM PARAMETER S19 NO EFFECT PROCESS CHANGED S20 YES ! UPDATE MUSIC PIECE RULE TABLE S21 REPRODUCTION NO OF MUSIC PIECE COMPLETED YES S22 REPRODUCTION NO OF ALL THE MUSIC PIECES COMPLETED ? YES FIG. 5 **END** 

PILLSBURY WINTHROP SHAW PITTMAN LLP Serial No.: 10/643,422 - Confirmation No. 4553 Group Art Unit: 2627 Title: SOUND RECORDING/REPRODUCING.... Attorney Name: Roger R. Wise

Title: SOUND RECORDING/REPRODUCING....
Attorney Name: Roger R. Wise
Tel.: (213) 488-7100 Docket No.: 51270-305422

REPLACEMENT SHEET

~ 201	202	~ 203	204
STX	COMMAND	OPTION	ETX

FIG. 6A

<del>\_301</del>	~302	303	304	305	306
STX	MODEL ID	INPUT SELECTOR	EFFECT ON/OFF		ETX

FIG. 6B

## 

1	·	
DSP	MODEL ID "1"	MODEL ID "2"
PROGRAM	DSP PROGRAM	DSP PROGRAM
CODE	PARAMETER	PARAMETER
0	HALL A	HALL
1	HALL B	CHURCH
2	CHURCH A	JAZZ
3	CHURCH B	SCI – FI
4	JAZZ	ADVENTURE
5	ROCK	GENERAL
6	SCI – FI	
7	ADVENTURE	
8 .	GENERAL	_

FIG. 7

# ∼106. DSP PROGRAM CODE TABLE

DSP	DSP		
PROGRAM	PROGRAM		
CODE	PARAMETER		
0	HALL A		
1	HALL B		
2	CHURCH A		
3	CHURCH B		
4	JAZZ		
5	ROCK		
6	SCI – FI		
7	ADVENTURE		
8	GENERAL		

FIG. 8

Title: SOUND RECORDING/REPRODUCING....
Attorney Name: Roger R. Wise
Tel.: (213) 488-7100 Docket No.: 51270-305422
REPLACEMENT SHEET

## -107. INPUT CODE TABLE

INPUT CODE	MODEL ID "1" INPUT SELECTOR SELECTION INPUT TERMINAL	MODEL ID "2" INPUT SELECTOR SELECTION INPUT TERMINAL
0	CD	CD
1	MD	MD
2	DVD	DVD
3	TUNER	VIDEO
4	VIDEO1	V – AUX
5	VIDEO2	
6	V – AUX	

FIG. 9

## -108. INPUT CODE TABLE

INPUT SELECTOR SELECTION INPUT TERMINAL
CD
MD
DVD
TUNER
VIDEO1
VIDEO2
V – AUX

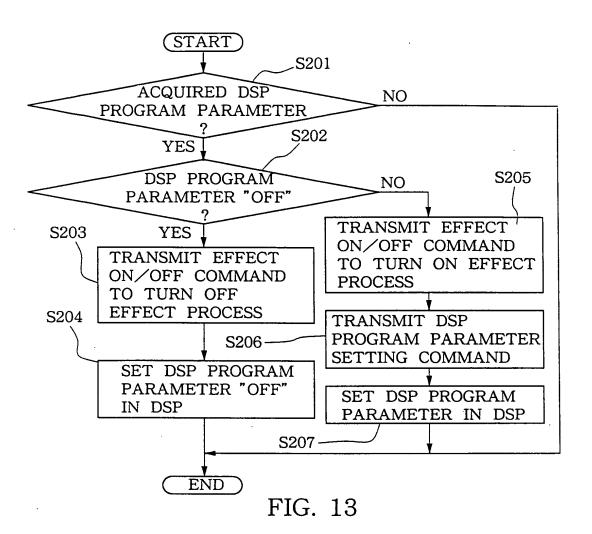
FIG. 10

Title: SOUND RECORDING/REPRODUCING.... Attorney Name: Roger R. Wise Tel.: (213) 488-7100 Docket No.: 51270-305422 REPLACEMENT SHEET 7/18START S101 DSP PROGRAM YES PARAMETER REGISTERED IN MUSIC PIECE RULE TABLE S107 NO ACQUIRE ALBUM INFORMATION S108 DSP PROGRAM YES PARAMETER REGISTERED IN ALBUM RULE TABLE ? S109 NO ACQUIRE ARTIST INFORMATION S110 DSP PROGRAM YES PARAMETER REGISTERED IN ARTIST RULE TABLE ? S111 NO, ACQUIRE GENRE INFORMATION S112 DSP PROGRAM YES PARAMETER REGISTERED IN GENRE RULE TABLE ? S102 NO ACQUIRE DSP PROGRAM PARAMETER ·S103 MODEL IDs YES AGREE WITH EACH OTHER ? NO S104 DSP PROGRAM PARAMETER PEPARED YES FOR CURRENTLY-CONNECTED **AMPLIFIER** APPARATUS S105 S106 NO. **ACQUIRE ACQUIRE** CORRESPONDING SUBSTITUTE DSP PROGRAM DSP PROGRAM **PARAMETER PARAMETER** FIG. 11 **END** 

PILLSBURY WINTHROP SHAW PITTMAN LLP Serial No.: 10/643,422 - Confirmation No. 4553 Group Art Unit: 2627

## 109. DSP PROGRAM ASSOCIATING TABLE

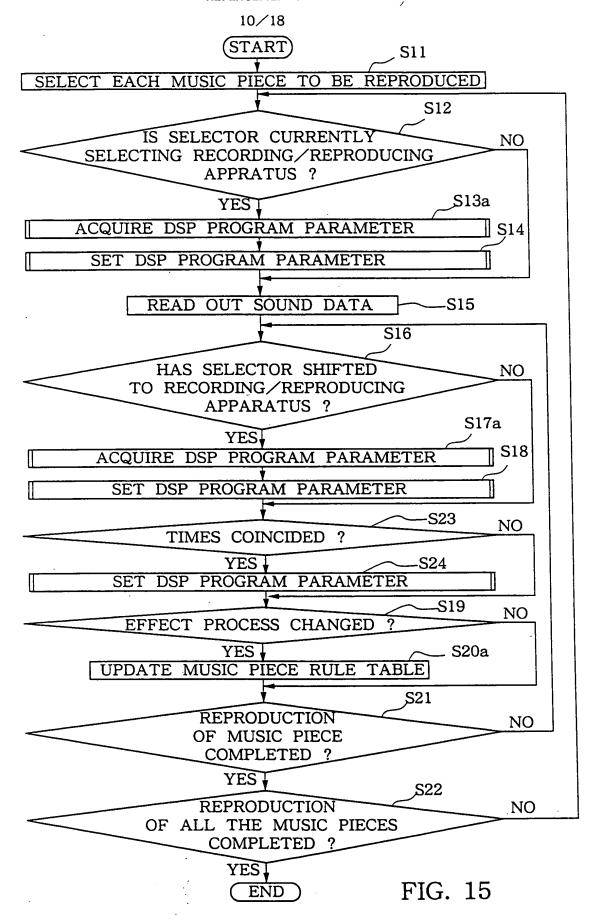
MAJOR CLASS OF DSP PROGRAM PARAMETER	MODEL ID "1" DSP PROGRAM PARAMETER	MODEL ID "2" DSP PROGRAM PARAMETER
HALL	HALL A	HALL
HALL	FALL B	
	CHURCH A	<del></del>
CHURCH	CHURCH B	
		CHURCH
JAZZ	JAZZ	JAZZ
DOCK	ROCK	
ROCK	<del></del>	ROCK
	SCI – FI	SCI – FI
CINEMA	ADVENTURE	ADVENTURE
	GENERAL	GENERAL
!		



101a. MUSIC PIECE RULE TABLE

MUSIC	PROCESSING	DSP PROGRAM	MODEL
PIECE ID	START TIME	PARAMETER	ID
	0:00	SCT - FI	1
1 2:30		OFF	1
	4:10	GENERAL	1
3	0:00	JAZZ	1
7	0:00	HALL A	1
	1:30	HALL B	1
ı	!	!	
i	1		<u> </u>

FIG. 14



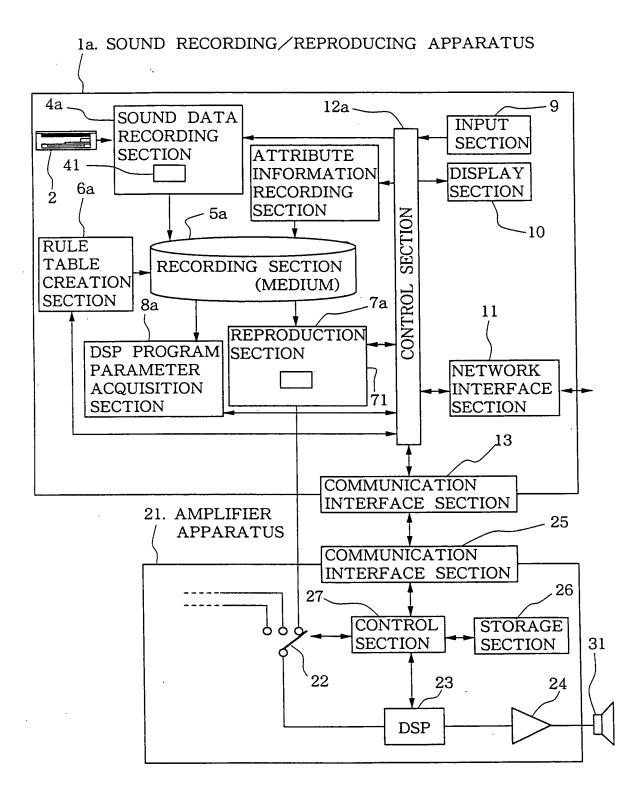
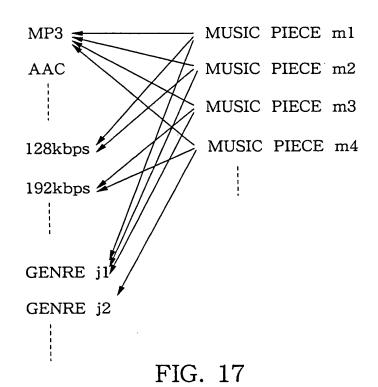


FIG. 16

Title: SOUND RECORDING/REPRODUCING....

Attorney Name: Roger R. Wise Tel.: (213) 488-7100 Docket No.: 51270-305422 REPLACEMENT SHEET



110. RULE TABLE

MUSIC PIECE ID	FORMAT	BIT RATE	GENRE ID	DSP PROGRAM PARAMETER	MODEL ID
1	МР3	128kbps	2	EQUALIZE A	1
4	МР3	192kbps	3	EQUALIZE B	1
	1				

FIG. 18

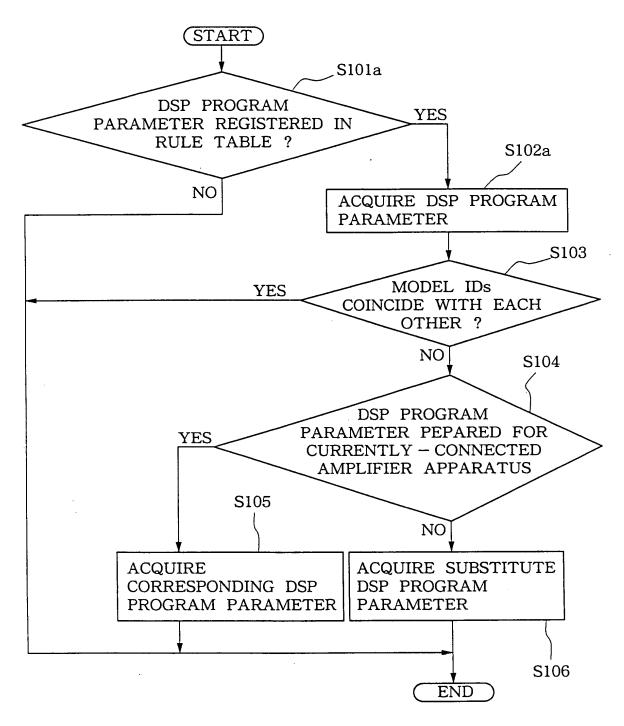
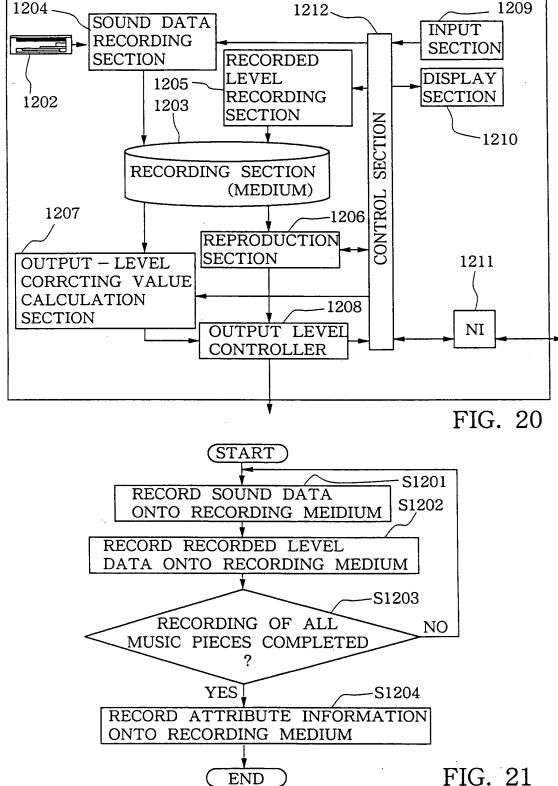
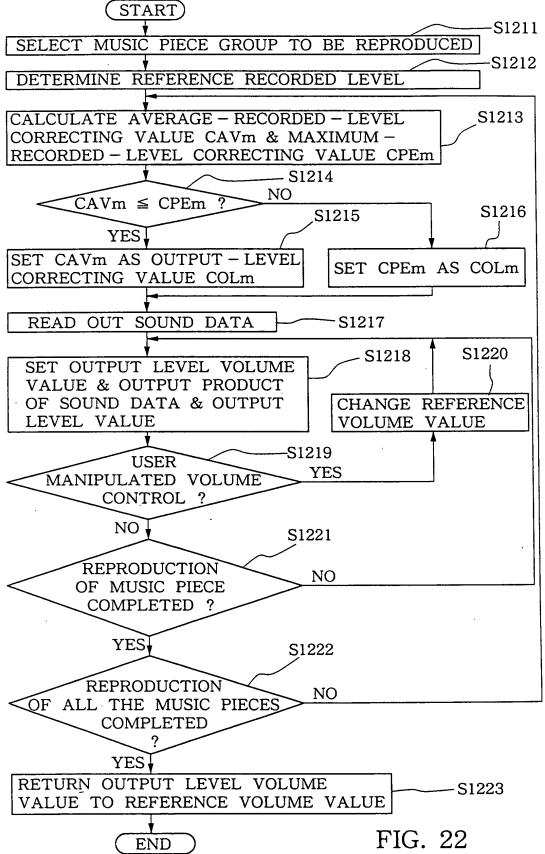


FIG. 19

### -1201. SOUND RECORDING/REPRODUCING APPARATUS \_ 1209 1212 SOUND DATA **INPUT**



**END** 



1201a. SOUND RECORDING/REPRODUCING APPARATUS The Sales Sales 1204--12091212a-SOUND DATA INPUT RECORDING **SECTION** SECTION RECORDED DISPLAY LEVEL 1205 -**SECTION** RECORDING 1202 1203 **SECTION** - 1210 RECORDING SECTION (MEDIUM) CONTROL 1207a \_1206 1211 REPRODUCTION SECTION VOLUME CORRECTING VALUE NI CALCULATION SECTION 1213 COMMUNICATION INTERFACE SECTION 1221. AMPLIFIER 1226 **APPARATUS** COMMUNICATION INTERFACE SECTION 1227 1228 CONTROL STORAGE 1231 **SECTION** SECTION 1223 1225 1224 1222 D/A

FIG. 23

Tel.: (213) 488-7100 Docket No.: 51270-305422 REPLACEMENT SHEET 17/18 START S1231 SELECT MUSIC PIECE GROUP TO BE REPRODUCED S1232 DETERMINE REFERENCE RECORDED LEVEL CALCULATE AVERAGE - RECORDED - LEVEL S1233 CORRECTING VALUE CAVm & MAXIMUM -RECORDED - LEVEL CORRECTING VALUE CPEm - S1234 NO CAVm ≤ CPEm S1236 S1235 YES. SET CAVm AS CVOm SET CPEm AS CVOm READ OUT SOUND DATA S1237 S1238 SELECTOR S1241 NO CURRENTLY SELECTING APPAPATUS 1201a CHANGE REFERENCE YES I **VOLUME VALUE** SET VOLUME VALUE -S1239 S1240 USER YES MANIPULATED VOLUME CONTROL ? NO S1242 REPRODUCTION NO OF MUSIC PIECE COMPLETED YES S1243 REPRODUCTION NO OF ALL THE MUSIC PIECES COMPLETED YES. RETURN VOLUME VALUE TO -S1244 REFERENCE VOLUME VALUE FIG. 24 END

PILLSBURY WINTHROP SHAW PITTMAN LLP Serial No.: 10/643,422 - Confirmation No. 4553 Group Art Unit: 2627 Title: SOUND RECORDING/REPRODUCING.... Attorney Name: Roger R. Wise

Title: SOUND RECORDING/REPRODUCING....

Attorney Name: Roger R. Wise Tel.: (213) 488-7100 Docket No.: 51270-305422 REPLACEMENT SHEET

STX COMMAND OPTION ETX

FIG. 25A

1501	1502	<u>1503</u>	1504	1505
STX	MODEL ID	VOLUME	INPUT SELECTOR	ETX

FIG. 25B

### 

1 - 2002				
INPUT CODE	MODEL ID "1" INPUT SELECTOR SELECTION INPUT TERMINAL	MODEL ID "2" INPUT SELECTOR SELECTION INPUT TERMINAL		
0	CD	CD		
1	MD	MD		
2	DVD	DVD		
3	TUNER	VIDEO		
4	VIDEO 1	V – AUX		
5	VIDEO 2			
6	V – AUX			

FIG. 26

### ∼1302. INPUT CODE TABLE

INPUT CODE	INPUT SELECTOR SELECTION INPUT TERMINAL
0	CD
1	MD
2	DVD
3	TUNER
4	VIDEO 1
5	VIDEO 2
6	V – AUX

FIG. 27